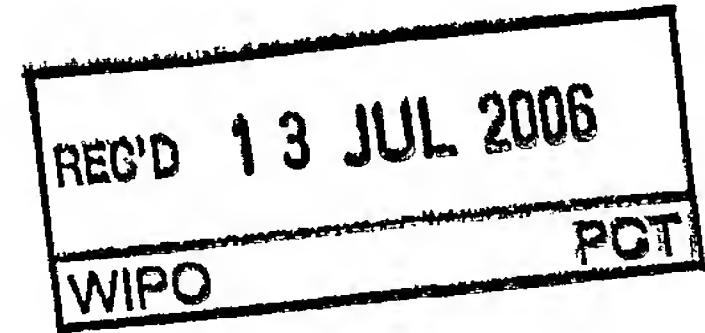


PATENT COOPERATION TREATY

PCT



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 66267-0011	FOR FURTHER ACTION		See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
International application No. PCT/US05/04291	International filing date (day/month/year) 11 February 2005 (11.02.2005)	Priority date (day/month/year) 11 February 2004 (11.02.2004)	
International Patent Classification (IPC) or national classification and IPC IPC: A61B 5/0468(2006.01),5/0472(2006.01) USPC: 600/508,509,515,516,517			
Applicant HENRY FORD HEALTH SYSTEM			

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.

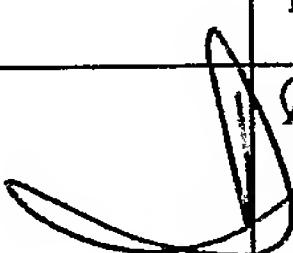
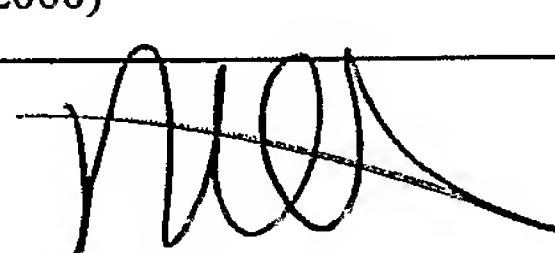
2. This REPORT consists of a total of 7 sheets, including this cover sheet.

This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of ___ sheets.

3. This report contains indications relating to the following items:

- I Basis of the report
- II Priority
- III Non-establishment of report with regard to novelty, inventive step and industrial applicability
- IV Lack of unity of invention
- V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI Certain documents cited
- VII Certain defects in the international application
- VIII Certain observations on the international application

Date of submission of the demand 08 November 2005 (08.11.2005)	Date of completion of this report 18 May 2006 (18.05.2006)
Name and mailing address of the IPEA/US Mail Stop PCT, Attn: IPEA/ US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201	 Authorized officer Carl H. Layno  Telephone No. (571) 272-4949

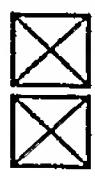
INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US05/04291

I. Basis of the report

1. With regard to the elements of the international application:*



the international application as originally filed.



the description:

pages 1-19 as originally filedpages NONE, filed with the demandpages NONE, filed with the letter of _____.

the claims:

pages 20-26, as originally filedpages NONE, as amended (together with any statement) under Article 19pages NONE, filed with the demandpages NONE, filed with the letter of _____.

the drawings:

pages 1-7, as originally filedpages NONE, filed with the demandpages NONE, filed with the letter of _____.

the sequence listing part of the description:

pages NONE, as originally filedpages NONE, filed with the demandpages NONE, filed with the letter of _____.

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language _____ which is:



the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).



the language of publication of the international application (under Rule 48.3(b)).



the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:



contained in the international application in printed form.



filed together with the international application in computer readable form.



furnished subsequently to this Authority in written form.



furnished subsequently to this Authority in computer readable form.



The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.



The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:the description, pages Nonethe claims, Nos. Nonethe drawings, sheets/fig None

This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION REPORTInternational application No.
PCT/US05/04291**V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement****1. STATEMENT**

Novelty (N)	Claims <u>4, 8-21, 28, 29, and 33-39</u>	YES
	Claims <u>1-3, 5-7, 22-27, and 30-32</u>	NO
Inventive Step (IS)	Claims <u>4, 8-21, 28, 29, and 33-39</u>	YES
	Claims <u>1-3, 5-7, 22-27, and 30-32</u>	NO
Industrial Applicability (IA)	Claims <u>1-39</u>	YES
	Claims <u>NONE</u>	NO

2. CITATIONS AND EXPLANATIONS

Claims 1-3, 5-7, 22-27, and 30-32 lack novelty under PCT Article 33(2) as being anticipated by Taha et al '090-B2. The Taha et al '090-B2 patent describes a method and apparatus for the serial comparison of electrocardiograms. Fig.2A shows that a baseline ECG value is acquired from the patient during a stable cardiac period 100. This baseline is stored in system memory 102 and later compared with recently acquired ECG data 108. A plurality of QRS complex segments are compared (Figs. 2B and 2C) including QT interval 138. If the QT interval exceeds the baseline and is greater than 450 ms, then a "severity value" is assigned to the QT interval block. If the QT interval exceeds 480 ms, then a "high severity" value is assigned (col.8, lines 40-48). In regard to claim 3, this analysis is performed automatically by management module 26 (Fig.1). In regard to claims 6, 22, and 25, the detection of prolonged QT interval is indicative of acute ischemia (i.e. infarction) (col.8, lines 29-30).

Claims 4, 8-21, 28, 29, and 33-39 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest a method and corresponding ECG monitoring apparatus capable of performing an electrocardiogram comparison manually (claim 4), comparing activation recovery interval data (claims 8, 28, 33, 38), comparing monophasic action potential data (claims 9, 29, 34, 39), performing ECG comparisons after a clinical procedure (claims 10-21), or detecting prolonged myocardial repolarization as an indicator of "ischemic preconditioning" (claims 35-39).

Claims 1-39 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.